10 20 30 40 50 60
TTAGCGCCAT TGCCATAGAG AGACCTCAGC CATCAATCAC TAGCACATGA TTGACAGACA 60
GAGAATGGGA CTTTGGGCTT TGGCAATTCT GACACTTCCC ATGIATITTGA CAGTTACGGA 120
GGGCAGTAAA TCGTCCTGGG GTCTGGAAAA TGAGGCTTTA ATTGTGAGAT GCCCCCAAAG 180
AGGACGCTGG ACTTATCCTG TGGAATGGTA TTACTCAGAT ACAAATGAAA GTATTCCTAC 240
CCAAAAAAAA AAAAA

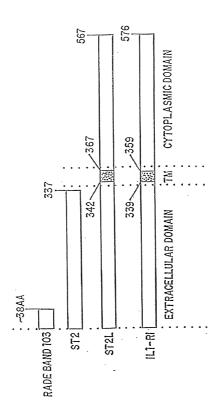


FIG. 2

- 1 atgattgaca gacagagaat gggactttgg gctttggcaa ttctgacact tcccatgtat
- 61 ttgacagtta cggagggcag taaatcgtcc tggggtctgg aaaatgaggc tttaattgtg
- 121 agatgecece asagaggaeg etegaettat cetgtggaat ggtattaete agatacasat
- 181 gaaagtatte etaeteaaaa aagaaategg atetttgtet caagagateg tetgaagttt
- 241 ctaccageca gagtegaaga ctetgggatt tatgettgtg ttatcagaag ccccaacttg
- 301 aataagactg gatacttgaa tgtcaccata cataaaaagc cgccaagctg caatatccct
- 361 gattatttga tgtactcgac agtacgtgga tcagataaaa atttcaagat aagctgtcca
- 421 acaattgace tgtataattg gacagcacet gttcagtggt ttaagaactg caaagctete
- 481 caagageeaa ggtteaggge acaeaggtee taettgttea ttgacaaegt gaeteatgat
- 541 gatgaaggtg actacacttg teaatteaca caegeggaga atggaaceaa etacategtg
- 601 acggecacca gatcattcac agttgaagaa aaaggetttt etatgtttee agtaattaca
- 661 aatectecat acaaccacac aatggaagtg gaaataggaa aaccagcaag tattgeetgt 721 tcagettget ttggcaaagg eteteaette ttggetgatg teetgtggea gattaacaaa
- 781 acagtagtig gaaattitigg tgaagcaaga attcaagaag aggaaggteg aaatgaaagt
- 841 tecageaatg acatggattg tttaacetea gtgttaagga taactggtgt gacagaaaag
- 901 gacctgtccc tggaatatga etgtetggcc etgaacette atggcatgat aaggcacace
- 961 ataaggetga gaaggaaaca accaagtaag gagtgteeet cacacattge t

FIG. 3A

MIDRORMGLWALAILTLPMYLTVTEGSKSSWGLENEALIVRCPORGRSTYPVEWYYSD
TNESIPTOKRNRIFVSRDRLKFLPARVEDSGIYACVIRSPNLINKTGYLNVTIHKKPPSCNIP
DYLMYSTVRGSDKNFKITCPTIDLYNWTAPVQWFKNCKALQEPRFRAHRSYLFIDNVTH
DDEGDYTCQFTHAENGTNYIVTATRSFTVEEKGFSMFPVITNPPYNHTMEVEIGKPASIA
CSACFGKGSHFLADVLWQINKTVVGNFGEARIQEEEGRNESSSNDMDCLTSVLRITGVT
EKDLSLEYDCLALNLHGMIRHTIRLRRKQPSKECPSHIA

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```
1 tgccattgcc atagagagac ctcagccatc aatcactagc acatgattga cagacagaga
   61 atgggacttt gggctttggc aattctgaca cttcccatgt atttgacagt tacggagggc
  121 agtaaatcgt cctggggtct ggaaaatgag gctttaattg tgagatgccc ccaaagagga
  181 cgctcgactt atcctgtgga atggtattac tcagatacaa atgaaagtat tcctactcaa
  241 aaaagaaatc ggatctttgt ctcaagagat cgtctgaagt ttctaccagc cagagtggaa
  301 gactotggga tttatgottg tgttatcaga agccccaact tgaataagac tggatacttg
 361 aatgtcacca tacataaaaa gccgccaagc tgcaatatcc ctgattattt gatgtactcg
 421 acaptacgtg gatcagataa aaatttcaag ataacgtgtc caacaattga cctgtataat
 481 tggacageac ctgttcagtg gtttaagaac tgcaaagetc tccaagagec aaggttcagg
 541 gcacacaggt cctacttgtt cattgacaac gtgactcatg atgatgaagg tgactacact
 601 tgtcaattca cacacgcgga gaatggaacc aactacatcg tgacggccac cagatcattc
 661 acaqttgaaq aaaaaggctt ttctatgttt ccagtaatta caaatcctcc atacaaccac
 721 acaatggaag tggaaatagg aaaaccagca agtattgcct gttcagcttg ctttggcaaa
 781 ggeteteact tettggetga tgteetgtgg cagattaaca aaacagtagt tggaaatttt
 841 ggtgaagcaa gaattcaaga agaggaaggt cgaaatgaaa qttccaqcaa tqacatqqat
 901 tgtttaacct cagtgttaag gataactggt gtgacagaaa aggacctgtc cctggaatat
 961 gactgtctgg ccctgaacct tcatggcatg ataaggcaca ccataaggct gagaaggaaa
 1021 caaccaattg atcaccgaag catctactac atagttgctg gatgtagttt attgctaatg
 1081 tttatcaatg tcttggtgat agtcttaaaa gtgttctgga ttgaggttgc tctgttctgg
 1141 agagatatag tgacacctta caaaacccgg aacgatggca agctctacga tgcgtacatc
 1201 atttaccctc gggtcttccg gggcagcgcg gcgggaaccc actctgtgga gtactttgtt
1261 caccacacte tgcccgacgt tettgaaaat aaatgtgget acaaattgtg catttatggg
1321 agagacetgt tacetgggca agatgcagec accgtggtgg aaagcagtat ccagaatage
1381 agaagacagg tgtttgttct ggcccctcac atgatgcaca gcaaggaatt tgcctacgag
1441 caggagattg ctctgcacag cgcctcatc cagaacaact ccaaggtgat tcttattgaa
1501 atggaggctc tgggtgaggc aagccgacta caggttgggg acctgcaaga ttctctccag
1561 catcttgtga aaattcaggg gaccatcaag tggagggaag atcatgtggc cgacaagcag
1621 tototaagtt ccaaattotg gaagcatgtg aggtaccaaa tgccagtgcc agaaagagcc
1681 tccaagacgg catctgttgc ggctccgttg agtggcaagg catgcttaga cctgaaacac
1741 ttttgagttq agagctgcgg agtcccagca gtaggcaccq gagtgcagqt gtgcagactt
1801 gaaatgccaa gggtgggggc cccaagtctc agctaaagag caactctagt ttattttcct
1861 ggttatggta ggagccaccc atcgtttgtt tccggtttcc ttttcctact tcactcttgt
1921 ggcacaagat caaccctgag ctttttcctt ttcttttatt tctctttttg ttccttcttt
1981 taaaaagettt ttaaaaattga ttatettatt tatetaeett teaaaggtta teeceettee
2041 eggtgeecc tetacaaate eccateetge tteecteete eetgetteta tgaqggtgee
2101 ccccacctq cccatccact ccaqccttac aggettqtq ttcccctatq ctqqqqcatc
2161 gaggetegat aagacetege eteteattea teaattatet acattetgaa tateaageeg
2221 acacttttgt ttttgttttt gattttttga gacagggttt ctctgtgtag ccctggctgt
2281 cttgaaactc acattgtaga ccaggetggc ctcgaactca gaaatcagcc tgcctctgcc
2341 tocccgagtg ctgggattaa aggcgtgcgc caccacgccg ggctaagcct acactttcag
2401 aataaagttc tgattcacct caaagagcag tctcattccc agaggcagag agccggaaag
2461 agcctccaat gtgcttgtcc aggcagagct gaccttattt gcttaccagt cacaggtaaa
2521 caaagcgttt ctccgtgttg cctcttgtag acatccctgt aatagattag gaagggaatg
2581 agccgtccta ctgaccagtt tgtgaattgt ggtagaaaaa gcgttgacgt ttgttaaata
2641 cttgttagca atgtaaacct cattcctaac acaccagaat ttcttacttt ttattcgtca
2701 attaccgagt tttgtcaagt cagtattaac agatttggtc gaatacctta cccaaattgc
2761 cattacagtc gagcatgttt tcagttctaa atgcctttta tatattttt attcttctta
2821 gaaatactto otoactttaa aagtaatgta aagatgtgtt agaaaacata aggtgtaaga
2881 gaaagtatga taaaatataa aaaataatag aaaggaaagg aaatataatg aaaatcataa
2941 ctcttaagat taattttggt aggtctgtat tttaaaatat aattaaattt tataccgata
3001 acttttatag ctgagattgt acactacaga ctaggcagct tttcctattt accaccataa
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3121 tgtgctgcag actatggctg aagcaqccaq aatqaqaaac aqgtctgcca tgtcacatcg
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3301 ctggacagtc ttttccagga gcacacacag accgtgaggt cctaggcacc caggaaacgg
3361 atccapagec caggeaagtg tettacaggt accttgaatt ttgccaatag atatgagece
3421 tgccttagct gagttgctca gtcggtgatg ggactccagg ctgaggtgac aatgaacaca
```

FIG. 4A

```
3481 gaatttggga gactettgaa aggaggggaa tgttgaacte acggteaaca tatgaggetg
3541 cagagaagcc gtatgcagaa gtgtgtgtag aggatctaga gtagcccgtt tctctgggga
3601 cagtgtgctc ttagtctgta cccttaggct gggttgccag gtaaacattt gctagtgttc
3661 agttcaaagg ctgaagcttg agctgagggt gatgaggaat tcaaacttcc cctcqcatqc
3721 atccaccetg tggttgcctg gtttgctaag tccacctgct ctgctgtagt agaaggtttt
3781 gatcttctgc agcttcatct acttcttagt gagttgccaa aactgaccac tgaaaagcat
3841 getgtgtaca taactgtete atgteecaga acgtgcaate aggaggaagt ceteacteec
3901 gataacggaa toottgotot gtggotgtga ggacgtocot tagcaacctc agatagtaat
3961 ttttcttagg ttggatggaa catagtaacg tgctggattc tttgctaact gaaaatagaa
4021 gtattoggat ttcagaaaga actggataaa tattaatgtt ggtgattatg aaatctcatt
4081 gtgagccgtg tgagtttgag tgtgtattcc atgattgtgc tgaatgaaga cctctaaaaa
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4201 catggaaaat gactaaagag aattattatt tgttcccgag attcttctga taagtctaaa
4261 ctatttgcat gtaattgagc tgggcagcat ggcacacttg ggaggcagag gcaggtggat
4321 ctctgtgagt ttgaggccag cctgctctac agagttagtt ccaggacacc agagctacaa
4381 aaagaaaacc tgtcctaaca acaacagcaa cagctgcagc agcaacaaca acaacaaaqa
4501 atagattttt ctgtaatgaa cacacatatg ctttgatgct tttgctaaac tcaaaatatt
4561 agtittattt tactgttttg aaaggttcaa agcatgatcc atgtaaaaat gtcttctgtg
4621 gggctttctc ccatttctac ttttgttccc ctcatttctt caaagtgctt gtccaggcag
4681 agetgacett atttgettae cagttacagg taaacaaage gttteetegt gttgeetett
4741 gtagccatct ctgtattaga ttaggaaggg aaggagccgt cctactgtcc agtttgtgag
4801 ttctggtaga aagagtgttg aagtttgtta aatgcttgtt ttccatgtat caaaatgtta
4861 tgcctttcct atttattatt gtatgacaaa ttatttttca ctgggcaaaa ataattgtgc
4921 cattgactcc ttgtgtgttt tcttcatgtg tgtttgaaga gttctagctt attaaaaaaa
4981 aaaatctag
```

FIG. 4A CONTD

MIDRQRMGLWALAILTLPMYLTVTEGSKSSWGLENEALIVRCPQRGRSTYPVEWYYSD
TNESIPTQKRNRIPVSRDRLKFLPARVEDSGIYACVIRSPNLNKTGYLNVTIHKKPPSCNIP
DYLMYSTVRGSDKNFKITCPTIDLTVNWTAPVQWFKNCKALQEPRFRAHRSYLFIDNVTH
DDEGDYTCQFTHAENGTNYIVTATRSFTVEEKGFSMFPVITNPPYNHTMEVEIGKPASIA
CSACFGKGSHFLADVLWQINKTVVGNFGEARIQEEEGRNESSSNDMDCLTSVLRITGVT
EKDLSLEPYDCLALNLHGMIRHTIRLRRKQPIDHRSIYYIVAGCSLLLMFINVLVIVLKVFW
IEVALFWRDIVTPYKTRNDGKLYDAYTIYPRVFRGSAAGTHSVEYFVHHTLPDVLENKC
GYKLCTYGRDLLPGQDAATVVESSIQNSRRQVFVLAPHMMHSKEFAYEQEIALHSALIQ
NNSKVILIEMEPLGEASRLQVGDLQDSLQHLVKIQGTIKWREDHVADKQSLSSKFWKHV
RYQMPVPERASKTASVAAPLSGKACLDLKHF

```
l aaagagaggc tggctgttgt atttagtaaa gctataaagc tgtaagagaa attggctttc
   61 tgagttgtga aactgtgggc agaaagttga ggaagaaaga actcaagtac aacccaatga
  121 ggttgagata taggetacte tteecaacte agtettgaag agtateacea actgeeteat
  181 gtgtggtgac ettcactgtc gtatgccagt gactcatctg gagtaatctc aacaacgagt
  241 taccaatact tgctcttgat tgataaacag aatggggttt tggatcttag caattctcac
  301 aatteteatg tattecacag cagcaaagtt tagtaaacaa teatggggee tggaaaatga
  361 ggctttaatt gtaagatgtc ctagacaagg aaaacctagt tacaccgtgg attggtatta
  421 ctcacaaaca aacaaaagta ttcccactca ggaaagaaat cgtgtgtttg cctcaggcca
  481 acttetgaag tttetaccag etgaagttge tgattetggt atttatacet gtattgteag
  541 aagteecaca tteaatagga etggatatge gaatgteace atatataaaa aacaateaga
  601 ttgcaatgtt ccagattatt tgatgtattc aacagtatct ggatcagaaa aaaattccaa
  661 aatttattgt cctaccattg acctctacaa ctggacagca cctcttgagt ggtttaagaa
  721 ttgtcagget ettcaaggat caaggtacag ggcgcacaag tcatttttgg tcattgataa
 781 tgtgatgact gaggacgcag gtgattacac ctgtaaattt atacacaatg aaaatggagc
841 caattatagt gtgacggcga ccaggtcctt cacggtcaag gatgagcaag gettteet
 901 gtttccagta atcggagccc ctgcacaaaa tgaaataaag gaagtggaaa ttggaaaaaa
  961 cgcaaaccta acttgctctg cttgttttgg aaaaggcact cagttcttgg ctgccgtcct
1021 gtggcagctt aatggaacaa aaattacaga ctttggtgaa ccaagaattc aacaagagga
 1081 agggcaaaat caaagtttca gcaatgggct ggcttgtcta gacatggttt taagaatagc
1141 tgacgtgaag gaagaggatt tattgctgca gtacgactgt ctggccctga atttgcatgg
1201 cttgagaagg cacaccgtaa gactaagtag gaaaaatcca attgatcatc atagcatcta
1261 ctgcataatt gcagtatgta gtgtatttt aatgctaatc aatgtcctgg ttatcatcct
1321 aaaaatgtte tggattgagg ceactetget etggagagae atagetaaac ettacaagae
1381 taggaatgat ggaaagetet atgatgetta tgttgtetae ceaeggaact acaaateeag
1441 tacagatggg gccagtcgtg tagagcactt tgttcaccag attctgcctg atgttcttga
1501 aaataaatgt ggctatacct tatgcattta tgggagagat atgctacctg gagaagatgt
1561 agteactgea gtggaaacca acatacgaaa gagcaggegg cacattttea teetgaccee
1621 tcagatcact cacaataagg agtttgccta cgagcaggag gttgccctgc actgtgccct
1681 catccagaac gacgccaagg tgatacttat tgagatggag gctctgagcg agctggacat
1741 getgeagget gaggegette aggacteeet ecageatett atgaaagtae aggggaceat
1801 caagtggagg gaggaccaca ttgccaataa aaggtccctg aattccaaat tctggaagca
1861 cgtgaggtac caaatgcctg tgccaagcaa aattcccaga aaggcctcta gtttgactcc
1921 cttggctgcc cagaagcaat agtgcctgct gtgatgtgca aagggatctg ggtttgaagc
1981 tttcctgact tctcctaget ggcttatgcc cctgcactga agtgtgagga gcgggaatat
2041 taaagggatt caggccac
```

FIG. 5A

1 mgfwilailt ilmystaakf skqswglene alivrcprqg kpsytvdwyy sqtnksiptq
61 ernrvfasqq llkflpaeva dsgiytcivr sptfnrtgya nvtiykkqsd cnvpdylmys
121 tvsgseknsk iycptidlyn wtaplewfkn cqalqgsryr ahksflvidn vmtedagdyt
181 ckfihnenga nysvtatrsf tvkdeggfsl fpvigapaqn eikeveigkn anltcsacfg
241 kgtqflaavl wqhqtkitd fgepriqee gqnqsfsngl acldmvlria dvkeedillq
301 ydclalnlhg lrrhtvrlsr knpidhhsiy ciiavcsvfl mlinvlviil kmfwieatll
361 wrdiakpykt rndgklyday vvyprnykss tdgasrvehf vhqilpdvle nkcgytlciy
421 grdmlppedv vtavetnirk srrhifiltp qithnkefay eqevalhcal iqndakvili
481 emealseldm lqaealqdsl qhlmkvqgti kwredhiank rslnskfwkh vryqmpvpsk
541 iprkassltp laagkg

1 atctcaacaa cgagttacca atacttgctc ttgattgata aacagaatgg qgttttqqat 61 cttagcaatt ctcacaattc tcatgtattc cacagcagca aagtttagta aacaatcatg 121 gggcctggaa aatgaggett taattgtaag atgtcctaqa caaggaaaac ctaqttacac 181 cgtggattgg tattactcac aaacaaacaa aaqtattccc actcaggaaa gaaatcgtgt 241 gtttgcctca ggccaacttc tgaagtttct accagctgaa gttgctgatt ctggtattta 301 tacctgtatt gtcagaagtc ccacattcaa taggactgga tatgcgaatg tcaccatata 361 taaaaaaacaa tcagattgca atgttccaga ttatttgatg tattcaacag tatctggatc 421 agaaaaaaat tocaaaattt attgtoctac cattgacete tacaactgga cagcacetet 481 tgagtggttt aagaattgtc aggctcttca aggatcaagg tacagggege acaagtcatt 541 tttqqtcatt gataatgtga tgactgagga cgcaggtgat tacacctgta aatttataca 601 caatgaaaat ggagecaatt atagtgtgac ggcgaccagg teetteacgg teaaggatga 661 gcaaggottt tototgttto caqtaatogq aqcocotqca caaaatqaaa taaaqqaagt 721 qqaaattqqa aaaaacqcaa acctaacttq ctctqcttqt tttqqaaaaq qcactcaqtt 781 cttggctqcc qtcctqtqqc aqcttaatqq aacaaaaatt acaqactttq qtgaaccaaq 841 aattcaacaa gaggaagggc aaaatcaaag tttcagcaat gggctggctt gtctagacat 901 ggttttaaga atagctgacg tgaaggaaga ggatttattg ctgcagtacg actgtctggc 961 cctgaatttg catggcttga gaaggcacac cgtaagacta agtaggaaaa atccaagtaa 1021 ggagtgtttc tgagactttg atcacctgaa ctttctctag caagtgtaag cagaatqqaq 1081 tgtggttcca agagatccat caagacaatg ggaatggcct gtgccataaa atqtqcttct 1141 cttcttcggg atgttgtttg ctgtctgatc tttgtagact qttcctqttt qctqqqaqct 1201 tototgotgo ttaaattgtt ogtooteeec cactootee tatogttggt ttgtotagaa 1261 cactcagetg ettetttggt catcettqtt ttetaaettt atqaaetece tetqtqteae 1321 tgtatgtgaa aggaaatgca ccaacaaccg aaaactg

FIG. 6A

MGFWILAILTILMYSTAAKFSKQSWGLENEALIVRCPRQGKPSYTVDW YYSQTNKSIPTQERNRVFASGQLLKFLPAEVADSGIYTCIVRSPTFNRT GYANVTIYKKQSDCNVPDYLMYSTVSGSEKNSKIYCPTIDLYNWTAPL EWFKNCQALQGSRYRAHKSFLVIDNVMTEDAGDYTCKFIHNENGAN YSVTATRSFTVKDEQGFSLFPVIGAPAQNEIKEVEIGKNANLTCSACFG KGTQFLAAVLWQLNGTKITDFGEPRIQQEEGQNQSFSNGLACLDMVL RIADVKEEDLLLQYDCLALNLHGLRRHTVRLSRKNPSKECF

1 cttageteeg teactgacte caagtteate ceetetgtet tteagtttgg ttgagatata 61 qqctactctt cccaactcaq tcttqaaqaq tatcaccaac tgcctcatqt qtqqtqacct 121 teactgttgt atgecagtga etcatetgga gtaateteaa caacgagtta ecaataettg 181 ctcttgattg ataacagaa tggggttttg gatcttagca attctcacaa ttctcatgta 241 ttccacaga gcaaagttta gtaaacaatc atggggcttg gaaaatgagg ctttaattgt 301 aagatgtcct agacaaggaa aacctagtta caccgtggat tggtattact cacaaaccaa 361 caaaagtatt cccactcagg aaagaaatcg tgtgtttgcc tcaggccgac ttctgaagtt 421 totaccagot gaagttgotg attotggtat ttatacctgt attgtcagaa gtcccacatt 481 caataggact ggatatgcga atgtcaccat atataaaaaa caatcagatt gcaatgttcc 541 agattatttg atgtattcaa cagtatctgg atcagaaaaa aattccaaaa tttattgtcc 601 taccattgac ctctacaact ggacagcacc tcttgagtgg tttaagaatt gtcaggctct 661 tcaaggatca aggtacaggg cgcacaagtc atttttggtc attgataatg tgatgactga 721 ggacgcaggt gattacacct gtaaatttat acacaatgaa aatggagcca attatagtgt 781 gacggcgacc aggtccttca cggtcaaggt ttggtgtcag agtttctgca aattaaaaaa 841 gagettaate titagtaata eteattggat teaaagteta atgagagget ttgtgatggt 901 atactatggt gtacataaat gttgtcgagt ggtttttaat ctttgtttgc aatactttca 961 acatcatcaa tggccttgaa tgagcaaggc ttttctctgt ttccagtaat cggagccct 1021 gcacaaaatg aaataaagga agtggaaatt ggaaaaaaacg caaacctaac ttgctctgct 1081 tgttttggaa aaggcactca gttcttggct gccgtcctgt ggcagcttaa tggaacaaaa 1141 attacagact ttggtgaacc aagaattcaa caagaggaag ggcaaaatca aagtttcagc 1201 aatgggctgg cttgtctaga catggtttta agaatagctg acgtgaagga agaggattta 1261 ttgctgcagt acgactgtct ggccctgaat ttgcatggct tgagaaggca caccgtaaga 1321 ctaagtagga aaaatccaag taaggagtgt ttctgagact ttgatcacct gaactttctc 1381 tagcaagtgt aagcagaatg gagtgtggtt ccaagagate catcaagaca atgggaatgg 1441 cctgtgccat aaaatgtget tetettette gggatgttgt ttgetgtetg atetttgtag 1501 actiticctg tittgetggga gettetetge tgettaaatt gitegteete eeceacteee 1561 tectategti ggtitgicta gaacacteag etgettetti ggteateett gttttetaac 1621 tttatgaact ccctctgtgt cactgtatgt gaaaggaaat gcaccaacaa ccgaaaactg

FIG. 7A

- 1 mgfwilailt ilmystaakf skqswglene alivrcprgg kpsytvdwyy sqtnksiptq 61 ernryfasgr llkflpaeva dsgjytoivr sptfnrtgya nvtiykkgad cnrpdylmys 121 tvsgseknsk iyocptidlyn wtaplewfkn cgalgagryr ahksflvidn vmtedagdyt 181 ckfihnenga nysvtatrsf tvkvwcqsfc klkkslifsn thwigslmrg fymvyygvhk 241 ccrvvfnlcl qyfdhqwp

FIG. 7B

GTCGACCCACGCGTCCGCCCACGCGTCCGCTGGAGTAATCTCAACAACGAGTTACCAATACTTGCTCTTGATTGA										79										
CAG	M OTA	G GGG	F TTT	W TGC	I TA	L TT	A GC	I TA	L CTC	T ACA	I A ATT	L CTC	M ATC	Y TAT	S TCC	T ACA	A GC	A A GC		18 137
K AAG	F TTT	S AGT	K AAA	Q CAA	S TCA	W TGG	G GGC	L CTG	E GAA	N TAA	E GAG	A GCT	L TTA	I TTA	V GTA	R AGA	C TGT	P CCT	R AGA	38 197
Q CAA	G GGA	K AAA	P CCT	S AGT	Y TAC	T ACC	V GTG	D GAT	W TGG	Y TAT	Y TAC	S TCA	Q CAA	T ACA	N AAC	K AAA	S AGT	I TTA	P CCC	58 25 7
T ACT	Q CAG	E GAA	R AGA	N AAT	R CGT	V GTG	F TTT	A GCC	S TCA	G GGC	Q CAA	L CTT	L CTG	K AAG	F TTT	L CTA	P CCA	A GCT	A GCA	78 317
V GTT	A GCT	D GAT	S TCT	G GGT	I ATT	Y TAT	T ACC	C TGT	I ATT	V GTC	R AGA	S AGT	P CCC	T ACA	F TTC	N AAT	R AGG	T ACT	G GGA	98 377
Y TAT	A GCG	N AAT	V GTC	T ACC	I ATA	Y TAT	K AAA	K AAA	Q CAA	S TCA	D GAT	C TGC	N AAT	V GTT	P CCA	D GAT	Y TAT	L TTG	M ATG	118 437
Y TAT	S TCA	T ACA	V GTA	S TCT	G GGA	S TCA	E GAA	K AAA	N AAT	S TCC	K A#A	I ATT	Y TA/T	C TGT	P CCT	T ACC	I TTA	D GAC	L CTC	138 497
Y TAÇ	N AAC	W TGG	T ACA	A GCA	P CCT	L CTT	E GAG	W TGG	TTT	K AAG	M ATG	S AGC	K AAG	A GCT	F TTT	L	C TGT	F TTC	Q CAG	158 557
30' 60' 49 49 500 TAA										159 560										
TCGGAGCCCCTGCACAAAATGAAATAAAGGAAGTGGAAATTGGCACTCAGTTCTTGGCTGCCGTCCTGTGGCAGCTTAA										639										
TGGAACAAAAATTACAGACTTTGGTGAACCAAGAATTCAACAAGAGGGAAGGGCAAAATCAAAGTTTCAGCAATGGGCTG 7										718										
GCTTGTCTAGACATGGTTTTAAGAATAGCTGACGTGAAGGAAG										797										
ATTTGCATGGCTTGAGAAGGCACACCGTAAGACTAAGTAGGAAAAATCCAAGTAAGGAGTGTTTCTGAGACTTTGATCA 8										876										
$\tt CCTGAACTTTCTCTAGCAAGTGTAAGCAGAATGGAGTGTGGTTCCAAGAGATCCATCAAGACAATGGGAATGGCCTGTG \\ \tt 9 \\ \tt 1 \\ \tt 1 \\ \tt 2 \\ \tt 3 \\ \tt 4 \\ \tt 4 \\ \tt 5 \\ \tt 6 \\ \tt 4 \\ \tt 5 \\ \tt 6 \\ \tt 6 \\ \tt 7 \\ \tt 6 \\ \tt 7 \\ \tt 7 \\ \tt 8 \\ \tt 9 \\ \tt 1 $										955										
$\tt CCATAAAATGTGCTTCTTCTTCGGGATGTTGTTTGCTGATCTTTGTAGACTGTTCCTGTTTGCTGGGAGCTTC-1$										1034										
${\tt TCTGCTGCTTAAATTGTTCGTCCTCCCCACTCCCTATCGTTGGTTTGTCTAGAACACTCAGCTGCTTCTTTGGTC-1}$										1113										
ATC	CTTG	TTTT	CTAAC	CTTT	ATGA	ACTC	CCTC	rg r gʻ	rcac'	rgta:	rgtg	AAAG	'AAAE	rgca(CCAA	CAAC	CGTA	AAAA	AAAA	1192
AAAAAAGGGCGGCCGCTT II										1210										

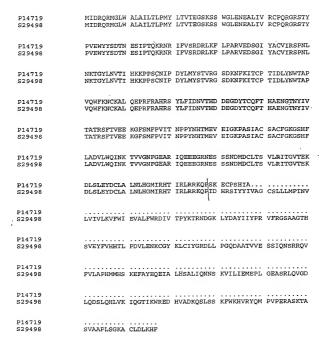


FIG. 9

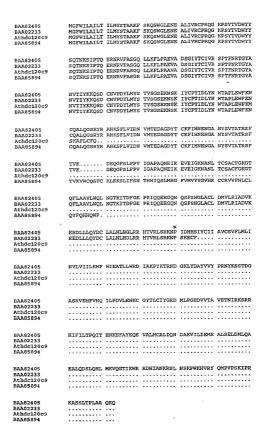


FIG. 10

P14719 S29498 BAA82405 BAA02233 Athdc120c9 BAA85894	MIDRQRMGLWMGFWMGFW	ALAILTLPMY ILAILTILMY ILAILTILMY ILAILTILMY	LTVTEGSKSS STAAKFSKQS STAAKFSKQS STAAKFSKQS	WGLENEALIV WGLENEALIV WGLENEALIV WGLENEALIV WGLENEALIV	RCPQRGRSTY RCPRQGKPSY RCPRQGKPSY RCPRQGKPSY
P14719 S29498 BAA82405 BAA02233 Athdc120c9 BAA85894	PVEWYYSDTN TVDWYYSQTN TVDWYYSQTN TVDWYYSQTN	ESIPTOKRNR KSIPTOERNR KSIPTOERNR KSIPTOERNR	IFVSRDRLKF VFASGQLLKF VFASGQLLKF VFASGQLLKF	LPARVEDSGI LPARVEDSGI LPAEVADSGI LPAEVADSGI LPAAVADSGI LPAEVADSGI	YACVIRSPNL YTCIVRSPTF YTCIVRSPTF YTCIVRSPTF
P14719 S29498 BAA82405 BAA02233 Athdc120c9 BAA85894	NKTGYLNVTI NRTGYANVTI NRTGYANVTI NRTGYANVTI	HKKPPSCNIP YKKQSDCNVP YKKQSDCNVP YKKQSDCNVP	DYLMYSTVRG DYLMYSTVSG DYLMYSTVSG DYLMYSTVSG	SDKNFKITCP SDKNFKITCP SEKNSKIYCP SEKNSKIYCP SEKNSKIYCP SEKNSKIYCP	TIDLYNWTAP TIDLYNWTAP TIDLYNWTAP TIDLYNWTAP
P14719 S29498 BAA82405 BAA02233 Athdc120c9 BAA85894	VQWFKNCKAL LEWFKNCQAL LEWFKNCQAL LEWFKMSKAF	QEPRFRAHRS QGSRYRAHKS QGSRYRAHKS LCFO	YLFIDNVTHD FLVIDNVMTE FLVIDNVMTE	DEGDYTCQFT DEGDYTCQFT DAGDYTCKFI DAGDYTCKFI	HAENGTNYIV HNENGANYSV HNENGANYSV
P14719 S29498 BAA82405 BAA02233 Athdc120c9 BAA85894	TATRSFTVE. TATRSFTVK. TATRSFTVK.	EKG DEQG DEQG	FSMFPVITNP FSLFPVIGAP FSLFPVIGAP	PYNHTMEVEI PYNHTMEVEI AQNEIKEVEI AQNEIKEVEI QSLMRGFVMV	GKPASIACSA GKNANLTCSA GKNANLTCSA
P14719 S29498 BAA82405 BAA02233 Athdc120c9 BAA85894	CFGKGTQFLA CFGKGTQFLA	DVLWQINKTV AVLWQLNGTK AVLWQLNGTK	VGNFGEARIQ ITDFGEPRIQ ITDFGEPRIQ	EEEGRNESSS EEEGRNESSS QEEGQNQSFS QEEGQNQSFS	NDMDCLTSVL NGLACLDMVL NGLACLDMVL
P14719 S29498 BAA82405 BAA02233 Athdc120c9 BAA85894	RITGVTEKDL RIADVKEEDL RIADVKEEDL	SLEYDCLALN LLQYDCLALN LLQYDCLALN	LHGMIRHTIR LHGLRRHTVR LHGLRRHTVR	LRRKQPSKEC LRRKQPIDHR LSRKNPIDHH LSRKNPSKEC	SIYYIVAGCS SIYCIIAVCS F

P14719 S29498 BAA82405 BAA02233 Athdc120c9 BAA85894			ALFWRDIVTP TLLWRDIAKP	YKTRNDGKLY	
P14719 S29498 BAA82405 BAA02233 Athdc120c9 BAA85894	RGSAAGTHSV KSSTDGASRV	EHFVHQILPD	VLENKCGYKL VLENKCGYTL	CIYGRDMLPG	EDVVTAVETN
P14719 S29498 BAA82405 BAA02233 Athdc120c9 BAA85894	IQNSRRQVFV IRKSRRHIFI	LAPHMMHSKE LTPQITHNKE	FAYEQEIALH FAYEQEVALH	SALIQNNSKV CALIQNDAKV	ILIEMEPLGE ILIEMEALSE
P14719 S29498 BAA82405 BAA02233 Athdc120c9 BAA85894	LDMLQAEALQ	DSLQHLMKVQ	GTIKWREDHV GTIKWREDHI	ANKRSLNSKF	WKHVRYQMPV
P14719 S29498 BAA82405 BAA02233 Athdc120c9 BAA85894	PSKIPRKASS	AAPLSGKACL LTPLAAQKQ.			

FIG. 11 CONT'D.

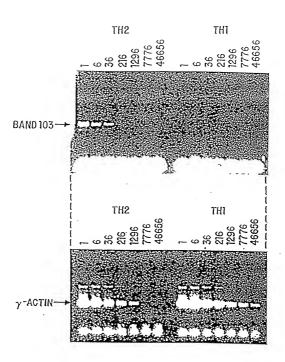


FIG. 12

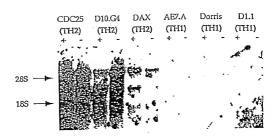


FIG. 13

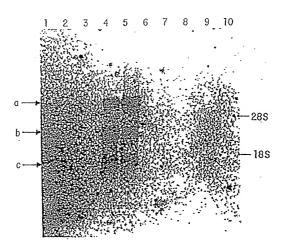


FIG. 14

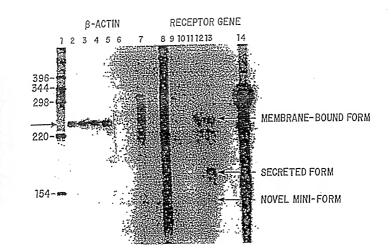
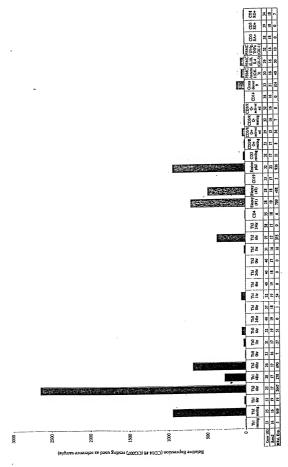


FIG. 15





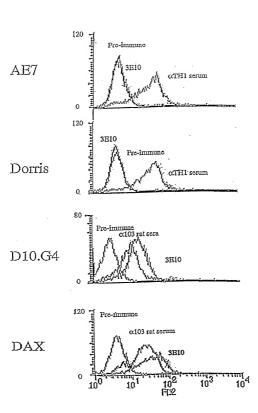


FIG. 17

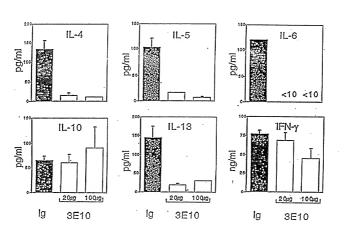


FIG. 18

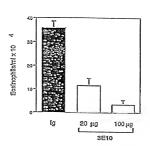


FIG. 19A

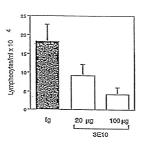


FIG. 19B

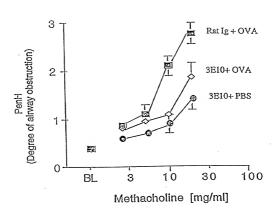


FIG. 20

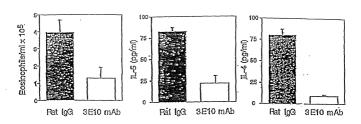


FIG. 21A

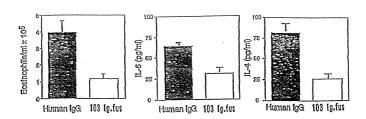


FIG. 21B

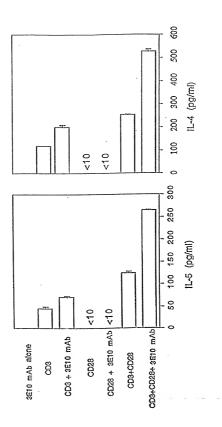


FIG. 22

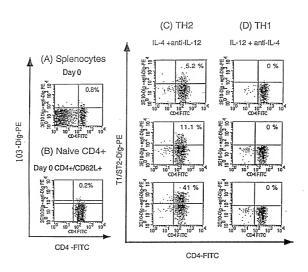


FIG. 23

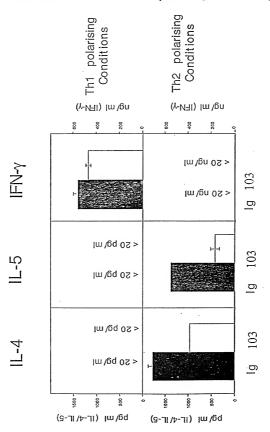


FIG. 24

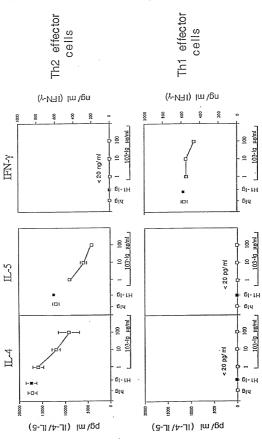


FIG. 25

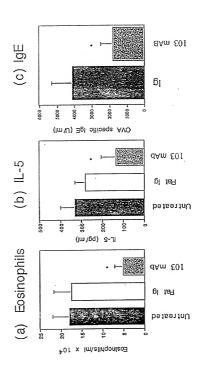


FIG. 26